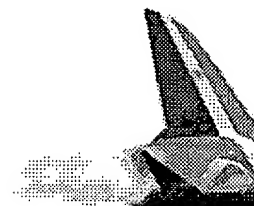


Electronic Alloys UK

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Home



Cupro - Nickel
Nickel 200 and 201
Nickel Chrome
Tungsten
Alloy 47/50

HYMU 80
Nickel 400 and 404
Nickel Silver
Alloy 42 - F30
Alloy 48

Kovar
Nickel 500
Stainless 300 Series
Invar 36
Alloy 49

Molybdenum
Nickel 600, 601, 625
Tantalum
Alloy 45
Alloy 52

Mumetal
Nickel 718 and 750
Titanium
Alloy 46
OFHC Copper

NICHROME 80/20 A

Nichrome 80/20 A is a resistance alloy used in electric heating applications. It is recommended for use in dry air applications up to 2150°F with good hot strength.

NOMINAL DATA SHEET

NOMINAL COMPOSITION:

Chromium - 19.5%	Manganese - .40%
Silicon - 1.25%	Nickel - Balance
Iron - .50%	

TYPICAL MECHANICAL PROPERTIES

(ANNEALED)

Ultimate Tensile Strength	105,000 PSI
Yield Strength (.2% Offset)	50,000 PSI
Elongation in 2" *	35 %
Modulus of Elasticity (Tension)	31 x 10 ⁶ PSI

* - The measured elongation will be less as thickness decreases to .002" and less.

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PHYSICAL PROPERTIES:

Density.....	0.304 lbs/cu.in.
Melting Point(Approx.).....	1400°C
Electrical Resistivity @ R.T.	108 Microhm/cm
Temperature Coefficient of Resistivity..	100 ppm/°C
(25°C to 105°C)	
Thermal Expansion Coefficient.....	13.4 x 10 ⁻⁶ /°C
(20°C to 100°C)	
Thermal Conductivity @ 100°C.....	15.0 W/m·K

Magnetic Attraction..... None

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Disclaimer

Every effort is made to ensure that technical specifications are accurate. However, technical specifications included herein should be used as a guideline only. All specifications are subject to change without notice.

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